



# SUSTAINABLE E-WASTE Design Competition



## Winners

### Artist / Designer

Gold Award- 1st Place  
+Tourist Kiosk

Silver Award – 2nd Place  
+Seedling keys

Bronze Award – 3rd Place  
+Penta-Chair

### Geek / Technical

#### Gold - 1st Place

+Recycling Kiosk

Silver – 2nd Place  
+E-Waste Hydroponics Farm

Bronze –3rd Place  
+Project E3 (E-Filter, E-

## Silver Award- 2nd Place Seedling Keys



From left to right: Jacqueline Min, Ipei Kuo, Jiana Yeon Seo

### Project Description:

The Seedling Keys is a project that focuses on the recycle and reuse of traditional computer keys. To begin, keys are repackaged into individual units where seeds are imbedded with a portion of soil. The base is composed of a layer of biodegradable material. The keys would be sold in a unit of four, and

Frame, E-Page)

**Honorable Mentions**

- +WHENCE
- +The E-Wave
- +Centuria
- +QWERTY

packaged by recycled paper. The wrapping will have an open slot showing the tops of key lids, exposing the seed types. Every key lid is lined with magnets cover by graphic representation of the plant type contain within. Furthermore, a giant key structure made 90% from keyboard backing, including a layer of magnetized metal sheets, also found in keyboards, is the final structure where the seedling keys can be planted. It contains an internal structure with soil and water chambers that supports a wicking system, a semi-self watering system. The wicking system is made of nylon strings and a segment of wire tubing, which is utilized to facilitate this feature. The giant key structure is designed to fit 16 single keys. It is also linked with a recycled USB cord, which powers lights situated on the top surface of the giant key, and generates a conceptual user interface on to their computer. If the USB cord is connected to a computer, a program will generate a report from a sensor situated in the soil chamber, providing data regarding soil condition, water level, plant health and other crucial information to the plant life.



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